

Storm Data and Unusual Weather Phenomena

November 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
INDIANA, Northeast									
Pulaski County Countywide	10	0845EST			0	0	10K		Thunderstorm Wind
									NUMEROUS TREES AND POWER LINES BLOWN DOWN ACROSS THE COUNTY.
Starke County Knox	10	0845EST			0	0	0		Thunderstorm Wind
									SEVERAL TREES AND POWER LINES BLOWN DOWN.
La Porte County Countywide	10	0900EST			0	0	50K		Thunderstorm Wind
									NUMEROUS TREES AND POWER LINES DOWN. ONE HOME SUFFERED EXTENSIVE DAMAGE WHEN A LARGE TREE FELL INTO IT COLLAPSING THE ROOF AND ONE WALL. ONE CAR WAS HEAVILY DAMAGED BY A FALLEN TREE.
Marshall County Countywide	10	0930EST			0	0	25K		Thunderstorm Wind
									SEVERAL POWER LINES AND POLES WERE BLOWN DOWN ALONG WITH MANY LARGE TREES AND LIMBS ACROSS THE COUNTY.
White County Monticello	10	0935EST			0	0	30K		Thunderstorm Wind
									WIDESPREAD DAMAGE OCCURRED TO TREES...POWER LINES...SIGNS AND POWER POLES ACROSS THE TOWN.
Cass County Logansport	10	0940EST			0	0	25K		Thunderstorm Wind
									MANY TREES...POWER LINES AND POLES WERE BLOWN DOWN IN TOWN WITH SEVERAL RESIDENTIAL STREETS BLOCKED FOR A TIME.
St. Joseph County Countywide	10	0945EST			0	0	50K		Thunderstorm Wind
									WIDESPREAD DAMAGE TO TREES AND POWER LINES WERE REPORTED ACROSS THE COUNTY.
Elkhart County Goshen Arpt	10	1040EST			0	0			Thunderstorm Wind (G53)
Elkhart County Countywide	10	1045EST			0	0	50K		Thunderstorm Wind
									NUMEROUS TREES AND POWER LINES WERE BLOWN DOWN. ONE MOBILE HOME WAS CRUSHED WHEN A LARGE TREE TOPPLED ONTO IT.
Kosciusko County 2 N North Webster	10	1046EST			0	0			Thunderstorm Wind (G52)
Elkhart County Nappanee	10	1050EST			0	1	5K		Thunderstorm Wind
									ONE MAN WHILE DRIVING ALONG U.S. HIGHWAY 6 WAS SLIGHTLY INJURED WHEN A LARGE TREE LIMB FELL ONTO HIS CAR. THE VEHICLE SUSTAINED EXTENSIVE DAMAGE.
Miami County Countywide	10	1100EST			0	0	10K		Thunderstorm Wind
									SEVERAL LARGE TREES AND POWER LINES WERE BLOWN DOWN.
Noble County Countywide	10	1110EST			0	0	10K		Thunderstorm Wind
									SEVERAL TREES AND POWER LINES WERE REPORTED BLOWN DOWN.
Whitley County Countywide	10	1115EST			0	0	10K		Thunderstorm Wind
									SEVERAL TREES AND POWER LINES WERE BLOWN DOWN ACROSS THE COUNTY.
Huntington County Rock Creek	10	1125EST			0	0	0		Thunderstorm Wind
									THE ROOF WAS BLOWN OFF THE OLD ROCK CREEK TOWNSHIP HIGH SCHOOL.

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INDIANA, Northeast

Grant County

Marion **10** **1130EST** **0** **0** **50K** **Thunderstorm Wind**
SEVERAL TREES AND POWER LINES WERE BLOWN DOWN IN TOWN. ONE CAR WAS BADLY DAMAGED BY A LARGE TREE LIMB. ONE FARM OUTSIDE OF TOWN HAD A ROOF BLOWN OFF THE BARN.

Lagrange County

Lagrange **10** **1135EST** **0** **0** **50K** **Thunderstorm Wind**
LAKELAND HIGH SCHOOL HAD ONE AUDITORIUM WALL BLOWN IN BY THE STRONG WINDS.

Allen County

Ft Wayne **10** **1145EST** **0** **1** **150K** **Thunderstorm Wind**
NUMEROUS TREES AND POWER LINES WERE BLOWN DOWN IN TOWN. ONE WOMAN WAS SERIOUSLY INJURED WHEN SHE CRASHED INTO A LARGE TREE THAT HAD FALLEN ACROSS STATE HIGHWAY 33. A MOBILE HOME WAS DESTROYED BY FIRE WHEN DOWN POWER LINES IGNITED THE HOME.

Steuben County

Countywide **10** **1145EST** **0** **0** **30K** **Thunderstorm Wind**
SEVERAL TREES AND POWER LINES WERE BLOWN DOWN. ONE HOME OWNERS GARAGE SUFFERED EXTENSIVE DAMAGE WHEN A LARGE TREE WAS TOPPLED ONTO IT.

Wells County

Countywide **10** **1145EST** **0** **0** **25K** **Thunderstorm Wind**
NUMEROUS TREES...POWER LINES AND POWER POLES WERE BLOWN DOWN ACROSS THE COUNTY.

Adams County

Decatur **10** **1230EST** **0** **0** **10K** **Thunderstorm Wind**
MANY TREES AND POWER LINES WERE DOWN ACROSS THE TOWN.

Jay County

Portland **10** **1240EST** **0** **0** **10K** **Thunderstorm Wind**
SEVERAL TREES AND POWER LINES WERE DOWN ACROSS THE TOWN.

MICHIGAN, Extreme Southwest

Berrien County

Niles **10** **0930EST** **0** **0** **25K** **Thunderstorm Wind**
SEVERAL TREES...TREE LIMBS...POWER LINES AND POWER POLES WERE EITHER SNAPPED OR BLOWN DOWN IN TOWN.

Cass County

Countywide **10** **0940EST** **0** **0** **50K** **Thunderstorm Wind**
EXTENSIVE DAMAGE OCCURRED TO TREES...POWER LINES AND POLES ACROSS THE COUNTY.

St. Joseph County

Countywide **10** **0955EST** **0** **0** **75K** **Thunderstorm Wind**
NUMEROUS TREES AND POWER LINES WERE BLOWN DOWN ACROSS THE COUNTY. THE TOWN OF STURGIS WAS ESPECIALLY HARD HIT WHERE TREES...LIMBS...FENCES AND TV ANTENNAS WERE BLOWN DOWN. ONE HOME OWNERS CAR WAS COMPLETELY CRUSHED BY A VERY LARGE TREE.

St. Joseph County

Colon **10** **1000EST** **0** **0** **150K** **Thunderstorm Wind**
SEVERAL HOMES WERE HEAVILY DAMAGED BY FALLEN TREES.

Hillsdale County

Countywide **10** **1200EST** **0** **0** **60K** **Thunderstorm Wind**
WIDESPREAD TREES AND POWER LINES WERE BLOWN DOWN. AEP HAD 66 REPORTS OF POWER LINES DOWN ACROSS THE COUNTY. IN JONESVILLE... DAMAGE WAS EXTENSIVE TO TREES...SIGNS AND POWER LINES.

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OHIO, Northwest

Paulding County

Countywide **10** **1215EST** **0** **0** **10K** **Thunderstorm Wind**
SEVERAL TREES WERE REPORTED BLOWN DOWN ACROSS THE COUNTY.

Defiance County

Defiance **10** **1220EST** **0** **0** **25K** **Thunderstorm Wind**
SEVERAL TREES AND POWER LINES WERE BLOWN DOWN. ONE CAR WAS HEAVILY DAMAGED BY A LARGE TREE LIMB.

Van Wert County

Countywide **10** **1245EST** **0** **0** **10K** **Thunderstorm Wind**
SEVERAL TREES WERE BLOWN DOWN.

Fulton County

Delta **10** **1300EST** **0** **0** **10K** **Thunderstorm Wind**
SEVERAL TREES WERE BLOWN DOWN WITH SOME ROADS REPORTED BLOCKED. SEVERAL POWER POLES WERE ALSO REPORTED SNAPPED.

Henry County

Napoleon **10** **1310EST** **0** **0** **0** **Thunderstorm Wind**
A FEW TREES WERE BLOWN DOWN IN TOWN.

Putnam County

Columbus Grove **10** **1310EST** **0** **0** **Thunderstorm Wind (G61)**

Putnam County

Columbus Grove **10** **1310EST** **0** **0** **10K** **Thunderstorm Wind**
SEVERAL TREES AND POWER LINES WERE BLOWN DOWN. STATE ROUTE 65 WAS BLOCKED IN SEVERAL LOCATIONS DUE TO FELLED TREES.

Allen County

4 W Lima to Lima **10** **1330EST** **0** **0** **10K** **Thunderstorm Wind**
TWO POWER POLES WERE SNAPPED. ONE LARGE TREE WAS BLOWN DOWN. TWO RAILROAD CROSSING ARMS WERE SNAPPED AS WELL.

One of the strongest low pressure systems ever observed across the central U.S. developed across southeast Colorado on November 9th. The low deepened throughout the day on the 9th and 10th as it tracked northeastward into southeast Minnesota. Low pressure records were set across Iowa and Minnesota with the lowest observed pressure of 961 millibars at Rochester Minnesota the afternoon of the 10th.

During the early morning hours of the 10th, gulf moisture rapidly streamed northward into the midwest ahead of a strong cold front extending south from the surface low in northeast Iowa. Dewpoints rose into the lower 60s with temperatures in the middle to upper 60s from central Indiana into southern Michigan by mid morning. Although instability was marginal, the existence of a 70 knot low level jet combined with a mid level jet in excess of 100 knots and its associated dry air intrusion helped to enhance the wind damage potential within the squall line that developed along the cold front during the early morning hours of the 10th. This squall line quickly developed as it moved eastward across Michigan, Indiana, Illinois, Missouri and Ohio during the day of the 10th with widespread wind damage reported.